

USE OF (PER)FLUOROPOLYETHER DERIVATIVES IN THE TREATMENT OF  
SUBSTRATA HAVING A LOW SURFACE ENERGY

ABSTRACT

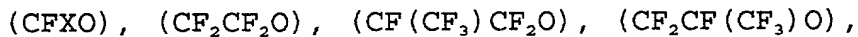
Use for improving the hydro- and oil-repellence properties of substrata having a low surface energy of (per)fluoropolyether mono- and bifunctional derivatives having the structures:



wherein:

L is a linking organic group  $-CO-NR'-(CH_2)_q-$ , with  $R'=H$  or  $C_1-C_4$  alkyl; q is comprised between 1 and 8;  $Y=F, CF_3$ ; W is a  $-Si(R_1)_\alpha(OR_2)_{3-\alpha}$  group with  $\alpha=0,1,2$ ,  $R_1$  and  $R_2$  equal to or different from each other are  $C_1-C_6$  alkyl groups,  $C_6-C_{10}$  aryl groups,  $C_7-C_{12}$  alkyl-aryls or aryl-alkyls;

$R_f$  has a number average molecular weight in the range 200-5,000 and comprises repeating units having at least one of the following structures:



wherein  $X = F, CF_3$ .